Fig. 1

50

60

To Network
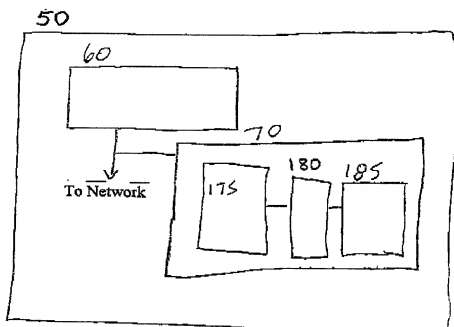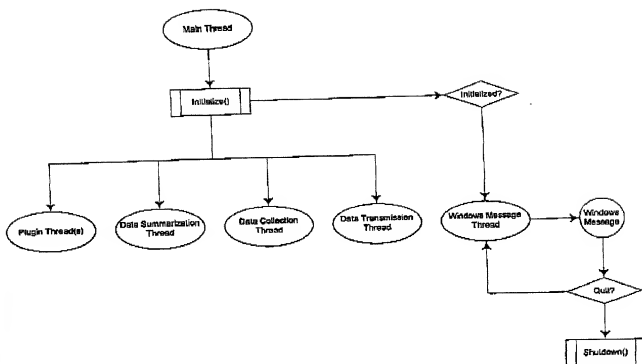
70

175

180

185

Fig. 2

Fig. 3

Fig. 4

```
Packet Size: 1200
pid: 340
threadId: 368
timeStamp: 952372115
state: 2
clientCookie.versionMajor: 1
clientCookie.clientCookie.versionMinor: 2
clientCookie.source: webHancer
clientCookie.clientId: 3439438016167880896952357565
clientPostCode:
clientIpAddr: 167880896
dnsLookupTime: 0
connectionDelay: 10
clientMaxAccessSpeed: 818000
userAgent: Mozilla/4.0 (compatible; MSIE 5.0; Windows NT; DigExt)
usingProxy: 1
host: www.yahoo.com
hostIpAddr: 3439438016
httpMethod: 0
target: /
referer:
httpResponse: 200
numFramesetPages: 0
numPageGets: 4
numGetRequestsSent: 4
numGetResponsesReceived: 4
numOkResponses: 4
numOkCachedResponses: 3
numMovedPermanentlyResponses: 0
numNotModifiedResponses: 0
numNotFoundResponses: 0
numSuccessResponses: 4
numClientErrorResponses: 0
numServerErrorResponses: 0
numBytesSent: 1160
numBytesReceived: 20070
numApplicationBytes: 0
numImageBytes: 7413
numTextHtmlBytes: 11768
numTextPlainBytes: 0
numTextXmlBytes: 0
numTextOtherBytes: 0
numAudioBytes: 0
numVideoBytes: 0
numCachedBytes: 7413
pageLoadTime: 932
totalTransferTime: 1352
totalNetworkRTT: 10
totalConnectTime: 10
totalDNSLookupTime: 0
applicationTransferTime: 0
audioTransferTime: 0
imageTransferTime: 420
textHtmlTransferTime: 932
```
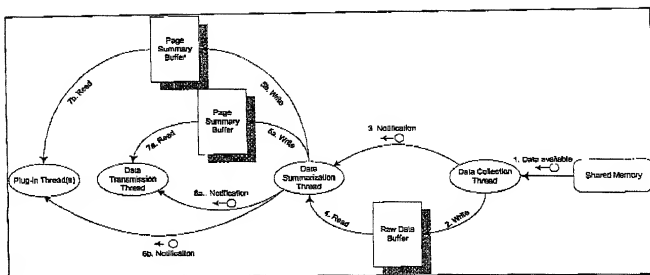
Fig. 5A

textPlainTransferTime: 0
textXmlTransferTime: 0
textOtherTransferTime: 0
videoTransferTime: 0
contentThroughput: 14844.7
applicationThroughput: 0
audioThroughput: 0
imageThroughput: 17650
textHtmlThroughput: 12626.6
textPlainThroughput: 0
textXmlThroughput: 0
textOtherThroughput: 0
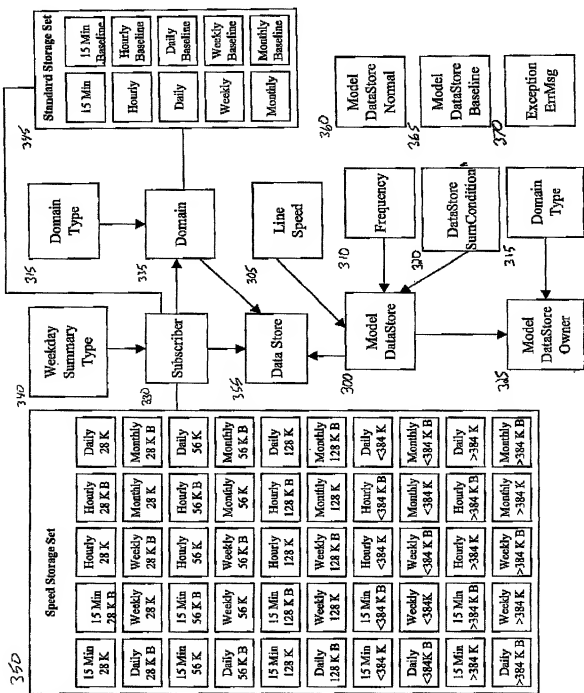videoThroughput: 0

Fig. 5B

Subscriber Database

Standard Storage Set (345)

15 Min	15 Min Baseline
Hourly	Hourly Baseline
Daily	Daily Baseline
Weekly	Weekly Baseline
Monthly	Monthly Baseline

Domain Type (315)

Domain (315)

Line Speed (305)

Frequency (310)

DataStore SumCondition (300)

Domain Type (315)

Model DataStore Normal (360)

Model DataStore Baseline (365)

Exception ErrMsg (370)

Weekday Summary Type (340)

Subscriber (330)

Data Store (335)

Model DataStore (320)

Model DataStore Owner (325)

Speed Storage Set (350)

15 Min 28 K	Hourly 28 K	Daily 28 K
Daily 28 K B	15 Min 28 K B	Weekly 28 K	Hourly 28 K B	Monthly 28 K B
15 Min 56 K	56 K B	Weekly 28 K B	Hourly 28 K	Monthly 28 K	Daily 56 K
Daily 56 K B	15 Min 56 K B	Weekly 56 K	Hourly 56 K B	Monthly 56 K B
15 Min 128 K	Weekly 56 K B	Hourly 56 K	Monthly 56 K	Daily 128 K
Daily 128 K B	15 Min 128 K B	Weekly 128 K	Hourly 128 K B	Monthly 128 K B
15 Min <384 K	Weekly 128 K B	Hourly 128 K	Monthly 128 K	Daily <384 K
Daily <384 K B	15 Min <384 K B	Weekly <384K	Hourly <384 K B	Monthly <384 K B
15 Min >384 K	Weekly <384 K	Hourly <384 K	Monthly <384 K	Daily >384 K
Daily >384 K B	15 Min >384 K B	Weekly >384 K	Hourly >384 K B	Monthly >384 K B

Fig. 6

Database Summarization Process

Fig. 7

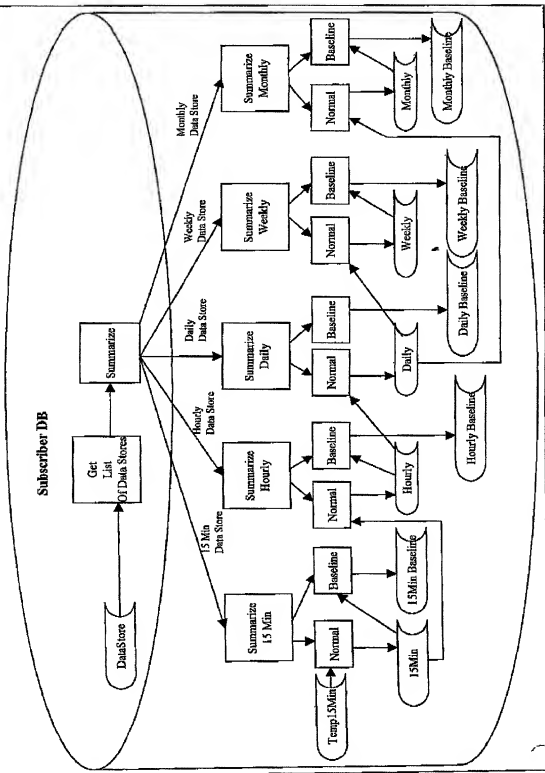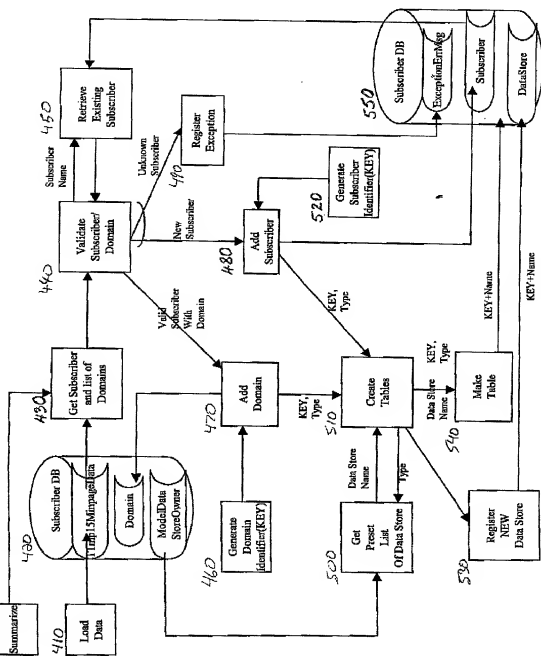# Dynamic Generation of Subscriber Database

Fig. 8

Data Access Path - Security

Fig. 9